Contact

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Website

joyang15.github.io

Education

2019-2024

Bachelor's of Applied Sciences in Management Engineering University of Waterloo

Relevant Coursework

MSCI 446: Machine Learning

- Unsupervised learning (clustering, Apriori)
- Supervised learning (regression, decision trees, Naïve Bayes, PRISM)
- Python

MSCI 251/253: Probability and Statistics

- Random variables, sampling, confidence intervals, and hypothesis testing
- Distributions Special discrete and continuous distributions (t, F, chisquare, Poisson)

MSCI 245: Databases and Software Design

- Relational databases
- Demonstrated entity relationships with ERDs
- Built functional websites using Rails as the model-view-controller framework along with HTML/CSS and SQL

MSCI 240: Algorithms and Data Structure

- Data structures (stack, queue, maps, sets, etc.)
- Analysis of time complexity using Big O notation.

Joanna Yang

University of Waterloo

Skills

- Programming Python (pandas, scikit-learn libraries), SQL, Java (object-oriented), Ruby/Rails, HTML/CSS
- Data Visualization & Analysis Tools Tableau, Power BI, Excel
- Methodologies Agile, Scrum, Waterfall, Six Sigma, Kaizen

Work Experience

• January 2023 - April 2023

International Operations Business Analyst (Co-op/Intern) | Scotiabank

• Developed a dynamic Power BI dashboard for tracking employee count and expenses, enabling management to make data-driven decisions 100% faster regarding plan/actual variances, resource allocation, and cost control.

May 2022 - August 2022

Business Improvement Analyst (Co-op/Intern) I J.D. Irving - Transportation

• Executed business improvement projects by creating workload distribution dashboards (Tableau), standardizing complex forms that allowed for data validations (Excel), and enhancing the orientation process for 6 businesses.

September 2021 - December 2021

Business Analyst (Co-op/Intern) | Toyota Credit Canada Inc. (TCCI)

- Analyzed SMS data using SQL and Tableau to identify trends between customer payments and SMS, resulting in the discovery that customers receiving SMS made payments 1 week faster.
- Collaborated with US Toyota partners to ensure high data quality for presentation to stakeholders, including the collections department, VP Operations, and VP Risk Management.
- Extracted data on SMS, payment, and delinquency from Amazon Redshift.

Q January 2021 - April 2021

Program Officer (Co-op/Intern) | Immigration Canada (IRCC)

• Analyzed compliance data of 300k+ international students using Excel, and designed a dashboard that provided a comprehensive comparison of pre-COVID and COVID compliance statuses to the Associate Deputy Minister.

Projects

March 2023 - Present

Student Mental Health Analysis I Python

 Investigating mental health data from students through visualizations and examining models such as decision trees.

January 2022 - April 2022

Predicting TED Talk Categories (MSCI 446 Term Project) I Python

• Predicted the categories of various TED Talks by applying text mining to transcripts using supervised learning models such as logistic regression and Naïve Bayes, with count vectorizer and TFIDF.